Canon

Mini DV

Precision-Engineered
Genuine Canon
Video Lens

# optura Xi

DIGITAL VIDEO CAMCORDER

## Yes you can have it all

DiG!C DV

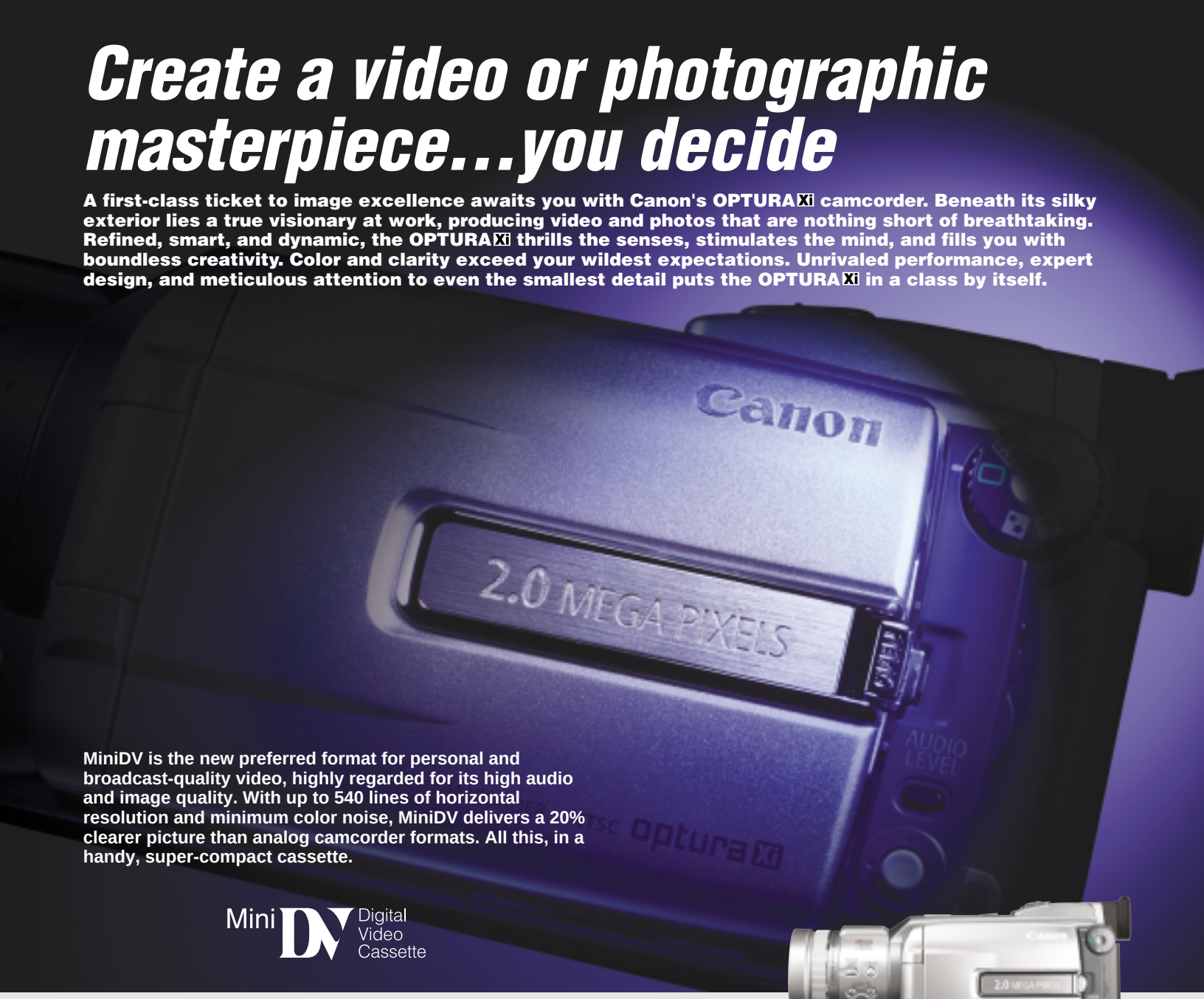
www.canondv.com

Mac

Designed for Microsoft® Windows® XP

# Create a video or photographic masterpiece...you decide

**A first-class ticket to image excellence awaits you with Canon's OPTURA Xi camcorder. Beneath its silky exterior lies a true visionary at work, producing video and photos that are nothing short of breathtaking. Refined, smart, and dynamic, the OPTURA Xi thrills the senses, stimulates the mind, and fills you with boundless creativity. Color and clarity exceed your wildest expectations. Unrivaled performance, expert design, and meticulous attention to even the smallest detail puts the OPTURA Xi in a class by itself.**




**MiniDV is the new preferred format for personal and broadcast-quality video, highly regarded for its high audio and image quality. With up to 540 lines of horizontal resolution and minimum color noise, MiniDV delivers a 20% clearer picture than analog camcorder formats. All this, in a handy, super-compact cassette.**

Mini DV Digital Video Cassette

## DIGIC DV

DIGIC DV is a system for achieving superior video and photographic images. Canon's expertise in imaging and electronics is flawlessly blended together, resulting in outstanding performance. It offers substantial benefits in color reproduction. DIGIC DV makes it possible to achieve accurate color for both video and digital photos. Since video and photos have different color requirements, DIGIC DV utilizes two different color techniques to maximize video quality on a TV and still image quality for print or computer display.

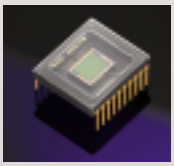
## VIC

Embracing the industry's latest and most sophisticated technology, Canon camcorders feature an exclusive connection circuit, called VIC. VIC is a virtual powerhouse. Traditionally, multiple chips were needed to perform the camcorder's input and output functions. However VIC manages it all with one single chip. The result is seamless connectivity whether you are connecting to a computer, TV, or VCR.

## High Resolution 2.0 Megapixel CCD

The OPTURA Xi features a robust 1/3.4 inch 2.0 megapixel CCD. Combined with a razor-sharp, megapixel compatible lens and optical image stabilization, the camcorder creates outstanding quality video and photos. A photo is recorded on a memory card at an image size of 1632 x 1224 pixels.

MEGA PIXEL



## RGB Primary Color Filter

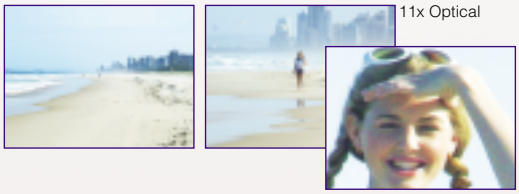
In addition to achieving higher resolution, the OPTURA Xi's 2.0 Megapixel CCD integrates an RGB Primary Color Filter which separates light passing through the lens into individual red, green and blue color components, similar to professional camcorders. As a result, the OPTURA Xi achieves more accurate color reproduction with finer gradations than models using a conventional complementary color filter. The difference is especially noticeable, for instance, in skin tones and scenes with a dominant color such as sunsets, a ski slope or a forest.

RGB Primary Color Filter

## Genuine Canon Optics: 11x Optical Zoom Lens (44-220x Digital Zoom)

What sets a Canon camcorder apart from all the others? It's the only camcorder made by a company renowned for high-quality professional optics. Our vast expertise in designing and crafting precision lenses for 35mm and broadcast TV cameras also goes into every camcorder lens we make. The OPTURA Xi's optical zoom lens delivers superb definition and contrast, taking full advantage of the DV format. The digital zoom extends the camcorder's magnification revealing details too small to see with the naked eye.

TAPE 11x/220x
CARD 9x/36x
OPTICAL ZOOM / DIGITAL ZOOM



11x Optical

220x Digital

## Optical Image Stabilizer

Canon utilizes the finest method of image stabilization available: optical. Canon's lens design includes a dedicated optical element that preserves image quality so your videos always look smooth, steady, and natural..whether shooting hand-held at full telephoto or from a moving vehicle. The optical method perfectly compliments the camcorder's outstanding image quality and offers superior shake reduction when light levels are low or while zooming. Image stabilization is even effective while shooting digital photos.

OPTICAL IMAGE STABILIZER

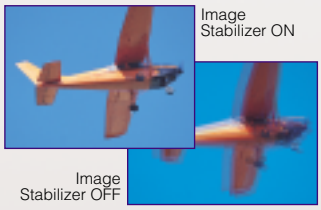


Image Stabilizer ON

Image Stabilizer OFF

## Program Auto Exposure

While the Easy Recording mode is fine for most shooting situations, the camcorder also includes additional pre-programmed auto exposure modes (Auto, Shutter-Priority (Tv), Aperture-Priority (Av), Spotlight, Sand & Snow, Night and Super Night mode), each carefully designed to give you the best possible image results under special shooting conditions. The Tv and Av modes permit easy operation while retaining the creative image controls. In the Tv mode, you can select a shutter speed from 1/8 to 1/2000* and the camcorder stets a matching aperture. In the Av mode, select an aperture from f/1.6 to f/8** and the camcorder automatically sets a matching shutter speed.

* CARD CAMERA mode: 1/2 to 1/500
** CARD CAMERA mode: f/1.8 to f/8

Tv mode

Sand & Snow

Av mode

Spotlight

Night mode

Super Night mode

## Night Mode and Super Night Mode

Even when the light has faded, you can keep on shooting with the OPTURA Xi's Night and Super Night mode. The camcorder uses the Night mode to select the ideal shutter speed and sensitivity combination to brighten up the scene, without sacrificing color. In the Super Night mode, the assist lamp lights up to illuminate the subject allowing you to capture the action without turning the lights on.

## 2.0 Megapixel High Resolution Photos

The OPTURA Xi features advanced image processing, for capturing stunning, 2.0 Megapixel (1632 x 1224 pixels) photos onto the included memory card. They may be captured at a variety of different image qualities and compression sizes (Superfine/Fine/Normal).

## Digital Photo Mode

For added flexibility, you may take up to 700 still images on a single MiniDV tape (in SP Mode). The camcorder records the photos for approximately 6 seconds, as well as recording the sound for your verbal notes or narration. You can search through the recorded tape for your photos using the supplied remote control.

## MPEG-4 Movie

You can record movies with sound in MPEG-4 format onto a memory card. Movies in MPEG-4 format can be easily downloaded to a computer and attached to e-mail messages. You may choose to record in 352 x 288 pixels or 176 x 144 pixels.

## Simultaneous Photo Recording

While recording video, the OPTURA Xi is able to simultaneously capture VGA quality (640 x 480 pixels) digital photos onto a memory card. This is perfect for those who want to capture e-mail ready photos, without interruption.

## Selectable Focusing Points

Sometimes, the subject we want to photograph is not in the center of the frame. Choose from one of three focusing points to automatically put the subject you want into sharp focus.

## Manual Focus Ring

You can easily and precisely adjust the focus with the manual focus ring.

## Continuous Shooting Mode

The OPTURA Xi features a continuous shooting Mode, allowing you to capture a rapid succession of photos. Shoot up to 30 images at 3 frames per second in VGA (640X480) size. This function is linked with the built-in flash, so continuous shooting is possible even in dark locations.

## Auto Exposure Bracketing

This feature allows you to record three photos (normal, underexposed and overexposed) simply by pressing the PHOTO button once.

Underexposed

Normal

Overexposed

Pictures simulated

## DV Messenger2

With **DV Messenger2**, you can use your Canon camcorder for Internet Video Chat with Microsoft Windows Messenger through USB or IEEE1394. Control the zoom and focus of your camcorder or the person you are chatting with. Preview thumbnails and transfer photos. Watch and control the video playback of either camcorder - all from your computer. When used in conjunction with the OPTURA Xi's NETWORK mode, you can access your camcorder at home from a remote location. NETWORK mode also makes it possible to switch either camcorder's mode (CAMERA to VCR, TAPE to CARD) through the computer, instead of manually switching it on the camcorder.

canon connects
plug and edit

## IEEE1394 DV Terminal

An IEEE1394-compliant DV terminal lets you connect the OPTURA Xi to a DV-compatible computer or another Canon DV camcorder. Transfer your digital movies to your computer's hard disk, edit your scenes, then use them to create high-impact Web sites, video e-mail, interactive CDs and DVDs, or a personal video album.

## USB Terminal

Allows high-speed transfer of images from your SD Memory Card or MultiMediaCard to your computer. By using the USB cable and software provided, you can process and organize your images on your PC. You can select the USB connection mode and use the camcorder like a card reader/writer.

### Included Software

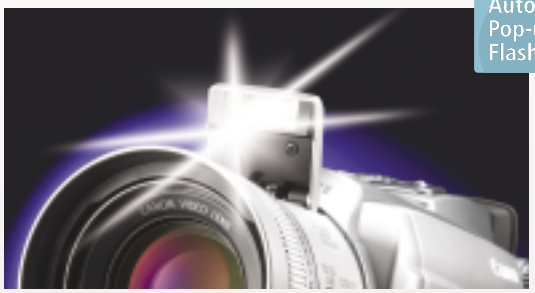
The OPTURA Xi Kit includes software for image management and editing: **ZoomBrowser EX** (Windows) and **ImageBrowser** (Macintosh) which let you easily download, browse, archive, and retouch your photos. Automatically resize images and attach them to e-mail, arrange them for printing, and add text.

## SD Memory Card and MultiMediaCard

The OPTURA Xi expands video possibilities with a built-in slot for an SD (Secure Digital) Memory Card or MultiMediaCard for capturing high-resolution digital photos or MPEG-4 movie clips. Easily transfer images to your PC directly from the camcorder using USB and IEEE1394. Produce effects not possible with just a cassette using the Card Mix Effects. Choose one of the sample images provided on the supplied SD Memory Card (such as picture frames, backgrounds and animations) and combine it with the live video recording.

## Pop-up Flash

The pop-up flash automatically rises up and fires according to the brightness of the surrounding area. Use to illuminate your subjects when shooting still images of night scenes, indoors or in other dark places. There are 4 modes: Auto, Red-eye reduction Auto, Flash on, Flash off.




## Direct Print Choices

The camcorder offers flexible connectivity with a variety of printers. Connect your camcorder to a Canon CP-Series Card Photo Printer (CP-10, CP-100/200/300) or Canon Bubble Jet Direct Printer, without even connecting a computer. A single cable connects the printer to your OPTURA Xi and you can perform trimming and other functions right from the camcorder. Choose from a range of different paper sizes with options for borderless or bordered prints. The OPTURA Xi can also connect to any PictBridge compliant printer.

BUBBLE JET DIRECT DIRECT PRINT PictBridge

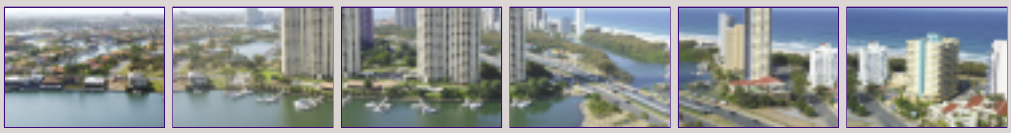
## Exif Print

The OPTURA Xi support Exif Print (2.2), a worldwide standard that enhances communication between digital cameras and printers. At the time of shooting, vital camcorder settings and scene data are recorded with the image, resulting in realistic and reliable color reproduction. Poor lighting or mistakes can also be corrected, allowing photos to be even better than the originals.

Exif Print

## StitchAssist

By using the StitchAssist Mode, you can create magnificent panoramas. Shoot your landscape, and transfer them to your computer. Then simply select and arrange your images in the correct order, and the supplied PhotoStitch software does the rest, aligning, overlapping and cropping the separate images to form one ultra-wide panoramic still image.



## PCM Digital Sound

The OPTURA Xi offer two digital audio modes, 12 and 16-bit. You can select 16-bit mode for high-quality, CD-equivalent stereo sound, or 12-bit to record only two of four channels, leaving two channels free for you to record additional sound later.

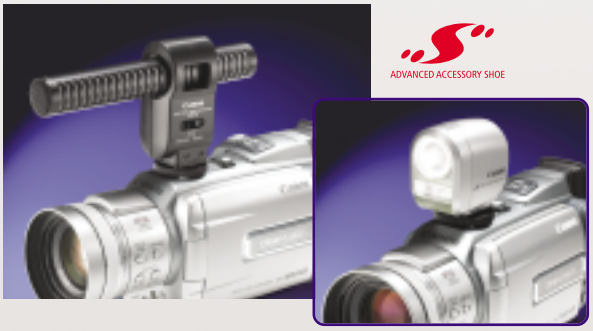
PCM
STEREO

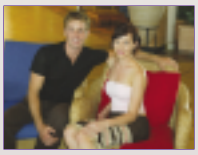
## Manual Audio Control

For complete control, the OPTURA Xi offers manual audio adjustment. The audio level can be monitored in the viewfinder or LCD view screen.

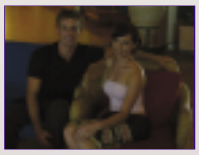
## Advanced Accessory Shoe

Want to add an accessory microphone or video light? Simply slide Canon's VFL-1 Video Flash Light, DM-50 Directional Stereo Microphone or VL-3 Video Light into the accessory shoe; the camcorder will automatically provide power and connections. No external power or cables are required.



VFL-1
Flash ON



VFL-1
Flash OFF

## Zebra Pattern

Reveal areas of overexposure, using these diagonal stripes to guide you when setting the aperture and shutter speed.

## 16:9 Widescreen Mode

You can record high-resolution videos in the 16:9 format for widescreen TVs. The optical image stabilization is also effective while recording in the 16:9 mode.

*In CAMERA mode only.

## Flexible LCD View Screen and Color Viewfinder

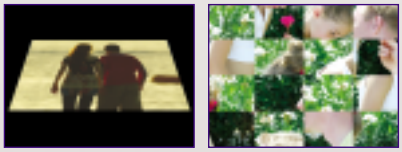
The bright 3.5" LCD view screen makes it easy to compose sensational shots without having to squint into the viewfinder. You can rotate the screen for high-or low-angle shots, or turn it around 180° to record yourself. When you're done shooting, the screen is perfect for reviewing your scenes.

## Digital Effects

Show your creativity by using the special effects and digital faders available with the OPTURA Xi. A wide selection of faders and special effects will add visual appeal and greater imaging variety.

### Faders

Add a variety of transitions to your movies with a fade to or from black. Choose from Fade Trigger, Wipe, Corner, Jump, Flip, Puzzle, Zigzag, Beam and Tide.



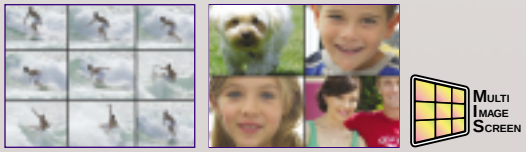
### Special Effects

For a more creative look, you can switch on the following digital effects during recording or playback: Art, Black & White, Sepia, Mosaic, Ball, Cube, Wave, Color Mask or Mirror.

* In Card mode: Only black and white is available.

### Multi-image Screen

Divide your screen into four, nine or sixteen pictures with the Image Capture function. You can choose the speed at which the images are captured: Manual, Slow, Moderate or Fast.




## Custom Key

Customize the camcorder to your shooting preferences or environment by assigning the following functions to the Custom Key.

**CAMERA mode**
- Image stabilizer
- Backlight compensation
- Zebra pattern

**CARD CAMERA mode**
- Image stabilizer
- Backlight compensation
- Zebra pattern
- Drive mode

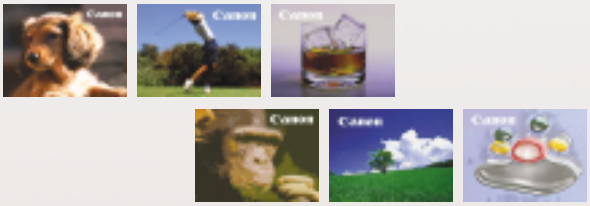
## Analog Line-In/Converter

You can send an analog video signal from a TV, VCR or a camcorder into the OPTURA Xi and record it onto a DV tape, or convert the analog signal into digital signal, for direct transfer to digital video devices or computers equipped with a IEEE1394 terminal*.

* The Analog to Digital Converter may not function depending on the software used.

## My Camera Function

Personalize your camcorder by customizing the start-up image and camcorder operation sounds. With the OPTURA Xi, you can choose a start-up image from the included software CD or use your own digital recordings.



- **Lithium Ion Battery**
- **S-Video Input/Output**
- **Microphone Terminal**
- **Remote Control Included**
- **Built-in Speaker**
- **Superb Playback Function**
- **AV Insert and Audio Dubbing**
- **Self-Timer**
- **Photo Search/Date Search**
- **Time Code/Data Code**
- **Record Search & Review**
- **Confirmation Beep**
- **Zero Set Memory**
- **World Clock**
- **Backlight Compensation**

# Optional Accessories

### Lithium Ion Battery Packs
Extra batteries for use with the camcorders.

| Battery Pack | Maximum Recording Time | |
|---|---|---|
| | Using the viewfinder | Using the LCD screen |
| **BP-512** (supplied, single-capacity) | 110 min. | 90 min. |
| **BP-511** (optional, single-capacity) | 110 min. | 90 min. |
| **BP-522** (optional, double-capacity) | 235 min. | 185 min. |
| **BP-535** (optional, triple-capacity) | 375 min. | 290 min. |

### CG-580 Battery Charger
It plugs directly into a power outlet without a cable and charges BP-500 series battery packs.

### CG-570 Battery Charger
The battery charger can be used with the supplied CA-570 Compact Power Adapter or the optional CB-570 Car Battery Cable to charge BP-500 series battery packs.

### DM-50 Directional Stereo Microphone
Attaches to the Advanced Accessory Shoe for cable-free operation. Picks up shotgun or shotgun + surrounding sound. Powered by the camcorder's power source. Wind shields included.

### VFL-1 Video Flash Light
Attaches to the Advanced Accessory Shoe for cable-free operation. As a video light, it can turn on and off automatically. As a flash, it can fire automatically or act as a pre-flash to reduce the red-eye effect.

### CB-570 Car Battery Cable
Use the car battery cable with the CG-570 Battery Charger to charge battery packs on the move.*
* Cannot be used to power the camcorder directly.

### VL-3 Video Light
This 3W light attaches to the Advanced Accessory Shoe for cable-free operation. Continuous on and auto on/off settings. Powered by the camcorder's power source.

### VL-10Li Battery Video Light
Powerful 10 W illumination. A BP-900 series battery attaches directly, so operation is cable-free.**
**A 900 series charger is required.

### WD-H46 Wide-converter
Gives wide-angle coverage at 0.7x.

### WS-20 Wrist Strap

### TL-H46 Tele-converter
Increases focal length by 1.5x.

### FS-H46U Filter Set
Includes neutral density (ND 8) filter and MC protector.

### SC-1000 Soft Carrying Case

Genuine Leather

### SC-A50 Soft Carrying Case

### DVM-E60/DVM-E80 Digital Video Cassette

### DVM-CL Digital Video Head Cleaning Cassette

**Use of genuine Canon accessories is recommended:** This product is designed to perform optimally when used with genuine Canon accessories. Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis.

Availability differs from area to area.

This mark identifies genuine Canon video accessories. When you use Canon video equipment, we recommend Canon-brand accessories or products bearing the same mark.

## Specifications

| | |
|---|---|
| **Power supply (rated)** | 7.4 V DC (Battery), 8.4 V DC (DC IN) |
| **Power consumption** | Using viewfinder: 4.5 W<br>Using LCD screen: 5.7 W |
| **Television system** | EIA standard (525 lines, 60 fields) NTSC color signal |
| **Video recording system** | 2 rotary heads, helical scanning system DV system (Consumer digital VCR SD system)<br>Digital component recording. |
| **Audio recording system** | PCM digital sound: 16 bit (48kHz/2ch),<br>12 bit (32kHz/4ch) |
| **Image sensor** | 1/3.4" CCD (charge coupled device) approx. 2,200,000 pixels (effective pixels: tape: approx. 1,230,000 pixels, card: approx. 2,000,000 pixels) |
| **Tape format** | Videocassettes bearing the (MiniDV) mark |
| **Tape speed** | SP: 0.74 ips (18.81 mm/s);<br>LP: 0.49 ips (12.56 mm/s) |
| **Maximum recording time (with an 80 min. cassette)** | SP: 80 min., LP: 120 min. |
| **Fast forward/rewind time** | 2 min. 20 sec. (with a 60 min. cassette) |
| **Lens** | F1.6-1.9, 11x power zoom, f=4.2-47 mm (16:9 mode: F1.6-1.9, 10x power zoom, f=4.7-47 mm; card: F1.8-2.8, 9x power zoom, F=5.2-47 mm) |
| **Focusing system** | TTL autofocus, manual focusing possible |
| **Minimum focusing distance** | 3.3 ft. (1 m), 0.79 in. (2 cm) on maximum wide angle (card: 2.4 in. (6 cm)) |
| **Maximum shutter speed** | 1/2,000 (1/500 when using a memory card) |
| **Minimum illumination** | 1.3 lx using the Night mode |
| **Recommended illumination** | More than 100 lx |
| **Filter diameter** | 46 mm |
| **Viewfinder** | 0.33 inch, color LCD (approx.113,000 pixels) |
| **LCD screen** | 3.5 in., TFT Color, approx. 246,000 pixels |
| **Microphone** | Stereo electret condenser microphone |
| **Recording media** | SD Memory Card, MultiMediaCard |
| **Number of recording pixels** | Still image: 1632 x 1224 pixels, 1280 x 960 pixels, 640 x 480 pixels<br>Movie: 352 x 288 pixels, 176 x 144 pixels |
| **File format** | Design rule for Camera File system (DCF), Exif 2.2 compliant, Digital Print Order Format (DPOF) compliant (only images marked for printing) |
| **Image format** | Still image: JPEG (compression mode: Superfine/Fine/Normal)<br>Movie: MPEG-4 |
| **Estimated SD Memory Card SDC-8M capacities*** | 1632 x 1224: Superfine 3 images/Fine 5 images/Normal 10 images, 1280 x 960: Superfine 5 images/Fine 9 images/Normal 16 images, 640 x 480: Superfine 34 images/Fine 50 images/Normal 84 images<br>*The actual number varies depending on the images. Sample images recorded on the supplied SD Memory Card are to be included in the total number. |
| **Maximum continuous shots** | 1632 x 1224: Flash on/off: 10 images (2 frames/sec.), 1280 x 960: Flash on: 10 images (2 frames/sec.); Flash off: 10 images (3 frames/sec.), 640 x 480: Flash on: 30 images (2 frames/sec.); Flash off: 30 images (3 frames/sec.) |
| **USB terminal** | mini-B (USB 2.0 compliant) |
| **DV terminal input/output** | Special 4 pin connector (based on IEEE1394) |
| **Video terminal** | 1 Vp-p/75 ohms unbalanced |
| **S-video terminal** | 1 Vp-p (Y signal), 0.286 Vp-p (C signal) |
| **Audio terminal** | Input level: -10 dBV/at least 40 kohms, unbalanced;<br>Output level: -10 dBV (47 kohms load), less than 3 kohms, unbalanced |
| **MIC terminal** | ø3.5mm stereo mini-jack<br>-37 dBV (MIC ATT ON), -57 dBV(MIC ATT OFF) (with 600 ohm mic)/5 kohms or more |
| **Operating temperature** | 32 - 104°F (0 - 40°C) |
| **Dimensions** | 3.2 x 3.5 x 7.9 in. (80 x 90 x 201 mm) |
| **Weight** | 1.6 lb. (725 g) |

### System requirements for supplied software:

**Digital Video Software**

Interface: USB: only preinstalled Windows 98/Windows Me/Windows 2000/Windows XP systems with built-in USB ports, or only systems equipped with genuine Apple-brand built-in USB interfaces.

| Operating System | | CPU | RAM |
|---|---|---|---|
| Windows | Windows 98/<br>Windows Me/<br>Windows 2000 | 150MHz or better | 64MB or more |
| | Windows XP | 300MHz or better | 128MB or more |
| Macintosh | Mac OS 9.0–9.2 | PowerPC | 64MB or more |
| | Mac OS X (v10.1/v10.2) | PowerPC | 128MB or more |

| Free hard disk space | | |
|---|---|---|
| Windows | ZoomBrowser EX | 120MB or more |
| | PhotoStitch | 40MB or more |
| | DV TWAIN Driver | 25MB or more |
| | DV WIA Driver | 25MB or more |
| Macintosh | ImageBrowser | 50MB or more |
| | PhotoStitch | 30MB or more |

**DV Network Software**

Interface: USB or IEEE1394: only preinstalled Windows XP Home Edition or Windows XP Professional systems with built-in USB or IEEE1394 terminal

| | | |
|---|---|---|
| CPU | 500 MHz or better (800 MHz or better recommended) | |
| RAM | 128 MB or more (256 MB or more recommended) | |
| Free Hard Disk Space | DV Messenger2 | 100 MB or more |
| | Canon USB Video Driver | 1 MB or more |
| | AV/C Camera Storage Subunit-WIA Driver | 1 MB or more |
| Other | Windows Messenger Version 4.5/4.6/4.7 | |

- To use DV Messenger2, it is required that Windows Messenger 4.5/4.6/4.7 operates correctly.
- It is required that Windows Messenger operates and the voice or video conversation can be used with a digital camcorder. Please consult Microsoft for details.
- If you are using a router, make sure it is an UPnP (Universal Plug and Play) compatible router. For details, consult your Internet service provider, telephone carrier, or refer to the manual of the router.
- We recommend using a broadband Internet connection.
- The communication quality and connectivity depend on the congestion of the Internet line and service.
- This product does not guarantee a certain communication quality.

### THE CANON OPTURA Xi

- OPTURA Xi
- Lens Hood
- BP-512 Battery Pack
- CA-570 Compact Power Adapter
- WL-D81 Wireless Controller
- SS-600 Shoulder Strap
- S-150 S-video Cable
- STV-250N Stereo Video Cable
- SDC-8M SD Memory Card (8 MB)
- IFC-300PCU USB Cable
- DIGITAL VIDEO SOLUTION DISK (For Windows, For Macintosh)

**MPEG-4 Visual Consumer Recorded Video Decoders and/or Encoders**

USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED, EXCEPT FOR USE BY A CONSUMER ENGAGING IN PERSONAL AND NON-COMMERCIAL ACTIVITIES.

# www.canondv.com

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